C L A I M S

1. Process for the production of hydrocarbons from gaseous hydrocarbonaceous feed comprising the steps of:

i) partial oxidation conversion of the gaseous hydrocarbonaceous feed and oxygen containing gas at elevated temperature and pressure into synthesis gas;

ii) catalytical conversion of synthesis gas of step i) using a cobalt based Fischer-Tropsch catalyst into a hydrocarbons comprising stream;

iii) separating the hydrocarbons comprising stream of step ii) into a hydrocarbons product stream and a recycle stream; and

iv) removing carbon dioxide from the recycle stream and recycle of carbon dioxide depleted recycle stream to step i).

2. Process as claimed in claim 1, wherein the carbon dioxide depleted recycle stream is premixed with the gaseous hydrocarbonaceous feed.

3. Process as claimed in claim 1 or 2, wherein part of the recycle stream of step iii) is used as fuel in steam reforming of gaseous hydrocarbonaceous feed for producing hydrogen supplement for synthesis gas of step i).

4. Process as claimed in claims 1-3, wherein part of the recycle stream of step iii) or step iv) is used as fuel for power generation.

5. Process as claimed in claim 1-4, wherein the hydrocarbons product stream is subjected to catalytic hydrocracking.

6. Process as claimed in claim 1-5, wherein the catalyst is a cobalt-zirconia catalyst.

7. Process as claimed in claim 1-6, wherein the hydrocarbon product stream comprises between 17 and 27 wt% C_{10}-C_{14}, preferably between 22 and 27 wt%.